

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	wo "2004113232"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/07 20:30
S2	1	de19948923	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/07 20:49
S3	1028	ultrasonic and mist and atomization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 12:27
S4	1	"11822248"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 12:28
S5	969	matsuura, kazuo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 12:28
S6	1	abe, fusaisugu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 12:29
S7	42	S5 and mist	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 12:29
S8	0	jp "3021612003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 17:31
S9	0	jp "2804992003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 17:32
S10	969	matsuura, kazuo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 17:32
S11	42	S10 and mist	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 17:54

S12	7	S11 and sections	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 17:54
S13	24	S10 and mist and atomization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 18:31
S14	782	atomization chamber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 18:44
S15	2	S14 and ultrasonic oscillates	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 18:45
S16	25	S14 and ultrasonic oscillator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 18:45
S17	143	96/389.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 18:52
S18	25	S14 and ultrasonic oscillators	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:01
S19	1002	210/151.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S20	55	95/21.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S21	105	95/29.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S22	109	95/30.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S23	0	239/8/30.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07

S24	897	239/8.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S25	760	239/1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:07
S26	213	239/10.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S27	528	239/34.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S28	417	239/102.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S29	143	96/389.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S30	121	96/175.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S31	218	96/219.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S32	446	96/6.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:08
S33	0	96/467.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:09
S34	175	435/291.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:09
S35	898	99/470.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:09

S36	1167	99/467.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:09
S37	876	431/10.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:09
S38	816	126/93.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:10
S39	260	126/95.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:10
S40	866	261/78.2.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:10
S41	364	261/81.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 19:10
S42	782	atomization chamber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S43	143	96/389.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S44	25	S42 and ultrasonic oscillators	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S45	1002	210/151.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S46	55	95/21.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S47	105	95/29.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03

S48	109	95/30.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S49	0	239/8/30.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S50	897	239/8.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S51	76	(S43 or S44 or S45 or S46 or S47 or S48 or S49 or S50)and oscillator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/11/09 21:03
S52	1003	210/151.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/08 12:12
S53	10	("5127822").URPN.	USPAT	ADJ	ON	2008/12/08 13:14
S54	15	("5170697").URPN.	USPAT	ADJ	ON	2008/12/08 13:16
S55	501	431/10.ccls.	USPAT	ADJ	ON	2008/12/08 13:17
S56	55	S55 and atomization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/08 13:17
S57	0	2005/0077241.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/08 13:47
S58	0	"20050077241".ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/08 13:47
S59	2	"20050077241"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/08 13:47
S60	47	"4055491"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:19
S61	1	S60 and manifold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:25

S62	34	"4280823"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:25
S63	1	S62 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:25
S64	12	"4523632"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:26
S65	1	S64 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:26
S66	38	"4523682"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:26
S67	0	S66 and manifld	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:27
S68	1	S66 and manifold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:27
S69	289164	manifold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:27
S70	2	S62 and S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/28 10:27
S71	1	("6818128").URPN.	USPAT	ADJ	ON	2009/05/28 10:28
S72	16	("4076617" "4280823" "4428757" "4850220" "5085783" "5164094" "5225089" "5466367" "5679257" "5728305" "6055859" "6216538" "6299761" "6361698" "6444176").PN. OR ("6818128").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 10:40

S73	1	transduce and standing wave and particle and manifold	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 10:41
S74	156	transducer and standing wave and particle and manifold	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 10:41
S75	7	fluid\$handling manifold	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:20
S76	3	S75 and transducer	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:20
S77	276	transducer and standing wave and manifold	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:29
S78	4	"6245207"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:43
S79	0	wo "02072234"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:44
S80	0	wo02072234	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:45
S81	0	wo 02/072234	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/28 11:45
S82	2	wo "0004978"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 13:42
S83	1	wo "02072234"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 13:44
S84	0	S83 and reflector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 13:59
S85	3	"7431892"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 15:38
S86	0	S85 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 15:49
S87	75	zumeris.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 16:07
S88	41	zumeris, jona.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 16:07

S89	0	fluid handling device	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 19:33
S90	1474	fluid handling device	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 19:33
S91	707	S90 and step	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 19:33
S92	141	S90 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 19:34
S93	5718	piezo and particle and fluid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 20:45
S94	1966	piezo and particle and fluid and ultra\$sonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 20:46
S95	40	particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 20:52
S96	4	particle seperator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 20:55
S97	0	particle seperater	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 20:55
S98	0	("7138269").URPN.	USPAT	ADJ	ON	2009/06/04 20:56
S99	3530	particle separator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:08
S100	219	particle separator and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:08
S101	182	particle separator and transducer and step	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:12

S102	0	piezoceremic and particle and fluid and ultra\$sonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:13
S103	243	piezoceramic and particle and fluid and ultra\$sonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:13
S104	27	("5225089").URPN.	USPAT	ADJ	ON	2009/06/04 21:18
S105	1	("6818128").URPN.	USPAT	ADJ	ON	2009/06/04 21:18
S106	45	("4055491" "4280823" "4393708" "4475921" "4523682" "4549435" "4573356" "4736815" "4743361" "4877516" "4890268" "5006266" "5036944" "5060651" "5085783" "5091893" "5147562" "5164094" "5192450" "5225089" "5257676" "5329496" "5419877" "5460181" "5484537" "5527460" "5831166" "5902489" "6029518" "Re33524").PN. OR ("6216538").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 21:19
S107	9	("5688405").URPN.	USPAT	ADJ	ON	2009/06/04 21:21
S108	6	("4055491" "4280823" "4398925" "4523682" "4673512" "4759775").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 21:23
S109	5582	transducer and stepwise	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 21:25
S110	1703	transducer and stepwise and particle and fluid	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 21:25
S111	1754	ultrasonic and stepwise and particle and fluid	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/06/04 21:30
S112	1	particle manipulator and stepwise	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:30

S113	27	particle manipulator and step	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/04 21:31
S114	79	FRANK, BERNARD.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/06/05 11:09
S115	1	"10516599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 01:42
S116	41	particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:07
S117	2	ultrasonic particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:08
S118	2	ultrasonic near particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:09
S119	4	ultrasonic and particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:09
S120	7	transducer and particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:10
S121	2	ultrasonic with particle manipulator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:22
S122	17239	ultrasonic with particle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:22
S123	775	ultrasonic near particle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:23
S124	0	ultrasonic near particlenear manipulation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:23

S125	3	ultrasonic near particle near manipulation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 02:23
S126	6	("5484537").URPN.	USPAT	ADJ	ON	2010/01/28 02:25
S127	1	"10516599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/28 13:30
S128	1	"10516599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/07/20 14:47

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	131	piezoceramic and particle and fluid and ultra\$sonic	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L2	5	transducer and particle manipulator	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L3	0	transducer and particle manipulator.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L4	41	FRANK, BERNARD.in.	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L5	160	matsuura, kazuo.in.	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L6	0	ultrasonic near particle manipulator	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L7	328	atomization chamber	USPAT; UPAD	ADJ	ON	2010/07/21 12:33
L8	540	ultrasonic and mist and atomization	USPAT; UPAD	ADJ	ON	2010/07/21 12:34
L9	207	"S60" and manifold	USPAT; UPAD	ADJ	ON	2010/07/21 12:34
L10	3	fluid\$handling manifold	USPAT; UPAD	ADJ	ON	2010/07/21 12:34
L11	19	particle manipulator and step	USPAT; UPAD	ADJ	ON	2010/07/21 12:34
L12	3	particle manipulator.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:34
L13	14	ultrasound near particle.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:35
L14	1021	ultrasound and particle and transducer.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:36
L15	742	ultrasound and particle and transducer and fluid.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:36

L16	11	ultrasound and particle and transducer and fluid and manifold.clm.	USPAT; UPAD	ADJ	ON	2010/07/21 12:36
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